Belt Sander

I. Competencies

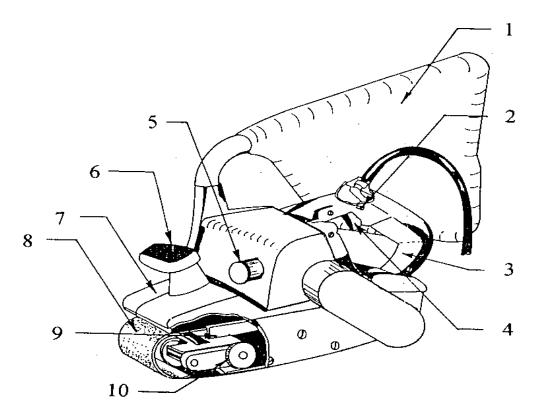
Given a properly adjusted belt sander, accessories, instruction and demonstration of use, each student will be able to:

- A. Identify the major parts of the belt sander.
- B. Pass a written test on safety and operating procedures of the belt sander with 100 percent accuracy.
- C. Demonstrate ability to use the belt sander, following suggested safety rules and correct operation procedures.

II. Instructional Materials and Procedures

- A. Identification of Basic Belt Sander Parts.
 - 1. Dust Bag
 - 2. Switch Lock
 - 3. D-Handle
 - 4. Trigger Switch
 - 5. Brush Holder
 - 6. Front Handle

- 6. Front Handle
- 7. Aluminum Housing
- 8. Belt
- 9. Belt Striker Bar
- 10. Belt Track Adjusting Knob



B. Belt Sander Safety

- 1. Wear safety glasses at all times when using the belt sander.
- 2. Wear hearing protectors and a dust mask when belt sanding.
- 3. Check the electrical cord and its connection to the sander housing for cuts, frays, or exposed wires. Exposed wires should be repaired before using the sander to avoid electrical shock or damage to the sander.
- 4. Keep both hands on the belt sander at all times when sanding.
- 5. Keep the electrical and extension cords away from the sanding area to avoid being cut by the rotating sanding belt.
- 6. Do not over-extend and lose balance when using the belt sander.
- 7. Raise the belt sander of the work, turn the switch to ON, and lower the Belt Sander slowly onto the surface being sanded.
- 8. Place the sander on its side when not in use to prevent it from being accidentally or intentionally turned on and running off the table.
- 9. Always clamp the material being sanded securely before starting the belt sanding operation.
- 10. Always unplug the belt sander when the sanding is completed or if you are leaving the sanding area.

C. Operating Procedures

- 1. To change the sanding belt hold the belt sander in a vertical position, push down on the front belt roller until it catches. Slide the old sanding belt off and observe the direction of the arrow on the inside of the old belt. Put the new belt on with the arrow pointing in the same direction as the arrow on the old. Release the catch on the front roller to apply tension to the new belt.
- 2. Empty the dust bag often for most efficient operation.
- 3. Before using the belt sander turn it on and adjust the belt tracking so the belt runs true on the front and rear rollers. Slight tracking adjustments may need to be made during the sanding operation.

- 4. Move the sander back and forth in smooth even strokes along the direction of the wood grain. Keep the sander moving at all times to avoid sanding uneven spots in the wood.
- 5. Start the sanding operation with a course grit sand belt, then move to a medium grit belt, and finish the operation with a fine grit belt.
- 6. When finished sanding lift the belt sander off the material and then release the Off/On switch.
- 7. Lay the belt sander on its side when setting the tool down.
- 8. When sanding do not allow the belt sander to extend over the ends of the material. This will prevent uneven amounts of material from being removed at the ends.

III. Written Test

Belt Sander Safety and Operation

Name		Date	Class
Multiple	Choice - Place the le	etter of the most correct an	aswer on the answer sheet.
1.	What personal prosander?	tective equipment should	be worn when using the belt
	c. Safety glasses,	and hearing protection hearing protection, and a hearing protection, dust r	
2.	How should the be	elt sander be placed when	setting it down after sanding?
	a. On its sideb. On its Beltc. In a belt sanded. Either a or c	r stand	
3.	If the belt sander of leaving?	pperator exits the sanding	area, what should he/she do before
	a. Put the sanderb. Place the sanderc. Lock the sandedd. Unplug the belonger	er in a sander stand. er trigger switch.	
4.		ling belt when changing thoosen the old belt.	ne sanding belt the operator
	c. pushes down of	striker bar rack adjusting knob n the front belt pulley n the rear belt pulley	
5.	To avoid uneven s	anding spots in the wood	the belt sander operator should
	c. move the sand	er back and forth in smooth	

		a. turn off the belt sander immediately.b. let the sand belt come to a stop while resting on the wood.c. pullout the electrical cord.d. raise the sander off the wood and allow the bet to come to a stop.			
7.	7.	If the belt sander extends over the end of the material while it is being sanded it will			
		a. cause no harm.b. remove an excessive amount of material from the end.c. cut and break the sand belt.			

6. When the sanding operation is completed the operator should

d. cause the sand belt to need a track adjustment.

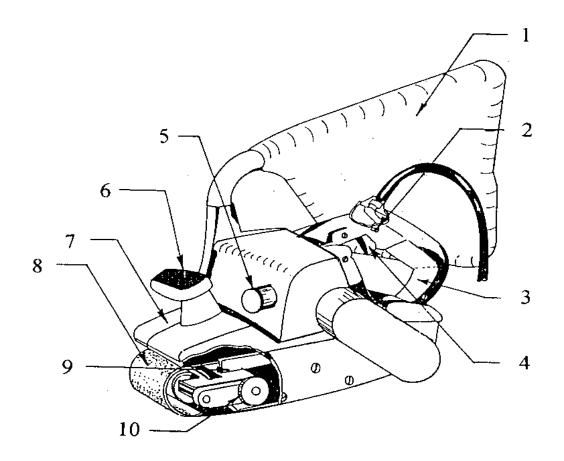
IV. Performance Test for the Belt Sander

The student performs the following while operating the belt sander.

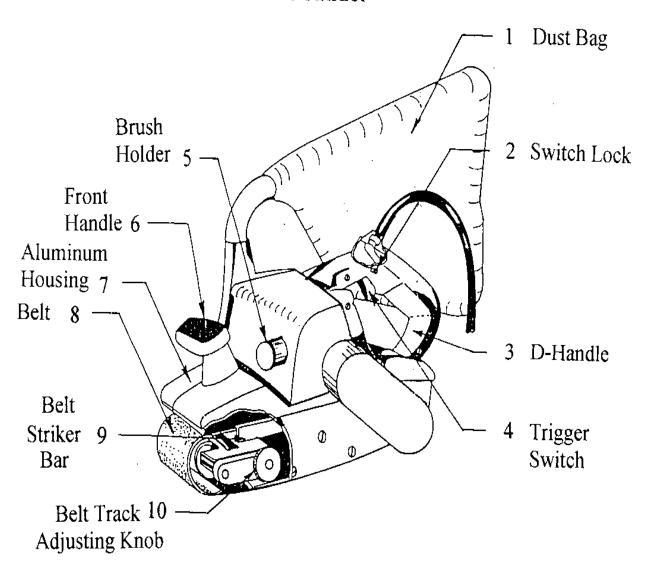
1		1.11 41 1	. 1	Yes	No	N/A
Ι.	Safety glasses are worn	while the sander	is being used.			
2.	Hearing protectors and g portable belt sander is be		when the			
3.	The belt sander is held f switch is turned on.	ïrmly in both han	ds as the			
4.	The portable belt sander it is laid down.	has stopped rota	ting before			
5.	The electrical and exten away from the work being		ositioned			
6.	When the sanding belt is belt sander the electric c	-	-			
7.	The student can remove on the belt sander.	and replace the s	anding belt			
9.	The student can safely c perform satisfactory san		nder and			
	o hereby certify that the serate the belt sander by pa		•	strated	l ability	to
	Student	———— Date	Teach	ner		

Belt Sander Parts Identification Test

Name	
Match the number of each belt sander with the correct part name.	
A. Aluminum HousingB. BeltC. Belt Striker BarD. Brush Holder BeltE. D-Handle	
 F. Dust Bag G. Front Handle H. Switch Lock I. Track Adjusting Knob J. Trigger Switch 	



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